## Marlborough Primary Academy School

SCIENCE Key Vocabulary
It is crucial that children have explicit and robust instruction in vocabulary, to support their verbal and written communication. At Marlborough Primary Academy, we know that a good understanding of a wide range of vocabulary supports success across the whole curriculum. Therefore, children are regularly taught new vocabulary in all areas of the curriculum.

We know that vocabulary is developed in two ways:

1) Through indirect instruction; using rich reading experiences to grow vocabulary 'naturally'. Paying attention to context to work out meaning and using background knowledge.
2) Through direct 'robust' instruction. Good vocabulary instruction involves...
a. Decisions about which words to teach
b. Decisions about how to teach these words

Vocabulary learning at Marlborough is taught in a fun and active way across the curriculum. Each unit of learning within each subject has key vocabulary identified and taught.

Having key subject specific vocabulary gives our children cultural capital to be able to engage with the wider world as they move through life.

|  | Willows Class | Maple Class |  |  | Sycamore Class |  |  | Beech Class |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term 1 Term 2 Term 3 | Term 1 | Term 2 | Term 3 | Term 1 | Term 2 | Term 3 | Term 1 | Term 2 | Term 3 |
| $\begin{aligned} & \hline 2023- \\ & 2024 \end{aligned}$ | herbivore, face, carnivore, hair, omnivore, leg, human, knee, animal, arm, fish, elbow, birds, back, head, toes, ear, hands, eye, fingers, mouth, nose, tree, petals, trunk, fruit, branch, roots, leaves, bulb, flowers, seed, stem, material, metal, wood, rock, plastic, hard, glass, soft, paper, fabric, material, smooth, shiny, rough, Summer, day, Spring, dark, Autumn, light, Winter, night, Season, Moon, Sun, Earth, Moon, Planet, space, Sun, star, loud, quiet, volume, sound, | animals, babies, young, adults, species, extinct, survive, eggs, live young, mammals, pregnant, older, teenager, toddler, food, vitamins, minerals, carnivores, herbivores, omnivores, water, air, oxygen, breathe, | discover, scientist, gravity, pulling it, working scientifically, rainbows, prism, experiment, colours, lens, white light, telescope, space. observatory, wind vane, anemometer, questions, observations, acoustics, control, predict, fungus, germs, disease, spread, sterile, circuit, wire, | material, different, types, wood, plastic, metal, glass, stone, fabric, properties, absorbent, bad idea, bendy, compare, dry, dull, fabric, good idea, group, hard , investigate, material, metal, not absorbent, not bendy, not waterproof, opaque, paper, rock, rough, shiny, smooth, soft, | acid, adult teeth, canines, carnivore, crown, damage, decay, dentine, digestive system, enamel, gall bladder, herbivore, incisors, intestine, liver, milk teeth, molars, oesophagus, omnivore, pancreas, plaque, premolars, pulp, rectum, root, stomach, sugar, teeth, tooth, wisdom | absorption, anthropic, bone fossil, building, burns, carve, crystals, decay, decompose, dissolve, durable, earth, erosion, extinct, fossil, fossilisation, friction, grains, igneous, impermeable, metamorphic, minerals, mold fossil, molten, natural, organism, origin, palaeontologist, paleontology, permeable, polished, porous, properties, | , alloy, <br> Antarctica, <br> Arctic, <br> attract, bar <br> magnet, <br> button <br> magnet, <br> compass, <br> cylindrical <br> magnet <br> direction, <br> distance, <br> Earth, field, <br> force, friction, <br> fridge, <br> gravity, <br> horseshoe magnet, investigate, iron, like, magnet, magnetic, magnetised, man-made, | battery, branches, bulb, buzzer, complete circuit, component, conductor, electric current, electric shock, electrical current, electricity, electrons, generator, high voltage, insulator, motor, parallel circuit, power, power source, proton, series circuit, simple circuit, switch , symbol, voltage, voltmeter, volts, adapt, adaptation, artificial selection, cell, characteristics, | accomplishments, altricial, amphibian, anther, arthropod, asexual, bird, budding, bulbs, carpel, class, discoveries, echinoderm, embryo, exoskeleton, fetus (foetus), filament, fish, gestation, grafting, internal organs, invertebrate, life cycle, mammal, molluscs, naturalist, offspring, ovary, ovule, parent plant, precocial, propagating. | absorbed, angle, angle of incidence, angle of reflection, angle of refraction, bend, cornea, ecosystems, electromagnetic, radiation, glare, illusion , incident ray, iris, lens, light pollution, light trespass, light waves, opaque, optic nerve, perpendicular joint, prism, pupil, reflected, reflected ray, refraction, retina, rods and cones, shadow, |



|  |  |  |  |  |  |  | strength, strings, travel, tuning fork, vibrate, vibration, violin, violinist, vocal cords, volume, wave |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Willows Class | Maple Class |  |  | Sycamore Cla |  |  | Beech Class |  |  |
|  | Term 1 | Term 1 | Term 2 | Term 3 | Term 1 | Term 2 | Term 3 | Term 1 | Term 2 | Term 3 |
| $\begin{aligned} & \hline 2023- \\ & 2024 \end{aligned}$ | herbivore, face, carnivore, hair, omnivore, leg, human, knee, animal, arm, fish, elbow, birds, back, head, toes, ear, hands, eye, fingers, mouth, nose, tree, petals, trunk, fruit, branch, roots, leaves, bulb, flowers, seed, stem, material, metal, wood, rock, plastic, hard, glass, soft, paper, fabric, material, smooth, shiny, rough, Summer, day, Spring, dark, Autumn, light, Winter, night, Season, Moon, Sun, Earth, Moon, Planet, space, Sun, star, loud, quiet, volume, sound, | head, neck, leg, arm, elbow, finger, mouth, ears, toes, feet, hands, stomach, wrist, eyes, ears, nose, senses, taste, sound, touch, sight, smell, feel, tongue | absorbent, bend, biodegradable, bulletproof, crops, discover, fabric, flexible, glass, invention, inventor, Kevlar, litter, materials, metal, objects, opaque, packaging, paper, plastic, pledge, pollution, properties, recycle, rigid, rock, rubber, scientist, shape, silicon chip, singleuse, squash, stretch, suitability, suitable, symbols, transparent, twist , unsuitable, water. <br> waterproof , wood, air, bark, blossom, brambles, bulbs, buttercup , clothing, | active, adapt, animals, autumn, colder, daylight, fall, forecasts, fruit, fungi, <br> hibernate, leaves, longer, migration, month, nuts, season, shorter, sleet, snow, spring, summer, temperature, warmer, weather, winter, year, amphibian, animals, backbone, beak, birds, carnivore, characteristics, claws, cold blooded, describe, diet, differences, ears, exercise, eyes, feathers, fins, fish, freshwater, gills, hearing, herbivore, lungs, mammal, medicine, mouth, nose, omnivore, pet, | (common bone names), <br> (scientific bone names), <br> balanced, ball and socket joint, bone, <br> carbohydrates, cardiac , carnivore, cartilage, diet, endoskeleton, exoskeleton, fibre, food chain, herbivore, hinge joint, human, invertebrate, involuntary, ligament, minerals, movement, muscle, nutrition, omnivore, organs, photosynthesis, pivot joint, protection, proteins, skeletal muscle, skeleton, smooth muscle, support, tendon, vertebrate, | amphibian, annelid, arachnid, bird, botany, carnivore, characteristics, class, <br> classification, classification key, conifers, consumer, crustacean, deforestation, depend, echinoderm, ecosystem, environment, ferns, fish, flowering, food chain, food web, grasses, habitat, herbivore, identify, impact, insects, invertebrate, local, mammal, microhabitat, mollusc, mosses, natural/human, nature reserve, negative, nonflowering, omnivore, organism, pollution, positive, positive/negative, predator, prey, producer, protect, | angle, brighter, closer, concave mirror, convex mirror, direct line of sight, faint, famous, formed, inventor, lightbulb, man-made, mirrors, opaque, periscope, phonograph , plane mirror, reflection, shadow, source of light, sundial, translucent, transparent appliance, battery, battery powered, break, brighter, buzzer, circuit, complete, component, conductor, conducts, dimmer, electrical, electricity, energy, | acid, alkali, attract, base, chemical reaction, classify, combustion, compass, concentrated, condensation, conductivity, conductor, corrosion, create, diluted, dissolve, electrical, evaporation, filtrate, filtration, freeze, hardness, improve, indicator, insoluble, insulator, iron, irreversible, magnetic field, magnetism, manmade, material, materials science, melt, metal, mixture, molecules, natural, neutralisation, particles, property, repel, resistance, reversible, saturated, semiconductor, separation, soluble, solute, solution, solvent, steel, synthetic, | accomplishments, altricial, amphibian, anther, arthropod, asexual, bird, budding, bulbs, carpel, class, cnidarians, discoveries, echinoderm, embryo, exoskeleton, fetus (foetus), filament, fish, gestation, grafting, internal organs, invertebrate, life cycle, mammal, molluscs, naturalist, offspring, ovary, ovoviviparous, ovule, parent plant, precocial, propagating, reproduction, reptile, runners, sexual, significant, species, sponges, spores, stamen, stigma, style, Tanzania, tubers, vertebrate, viviparous, worm, zoologist, zygote algae, angiosperms, bacteria, | addiction, amino acids, <br> analgesics, arteries, artery, atrium, biconcave, blood vessel, capillaries, carbohydrates, cardiovascular system, circulatory system, cytoplasm, deoxygenated blood, depressant, diastole, diffusion, drug, fatty acids, glucose, haemoglobin , hallucinogens, immunity, lactate, lactic acid, lungs, membrane, minerals, nutrient, oxygenated blood, plasma, platelets, protein, pulmonary circuit, red blood cell, resting heartrate, stimulant, systemic system, systole, |



